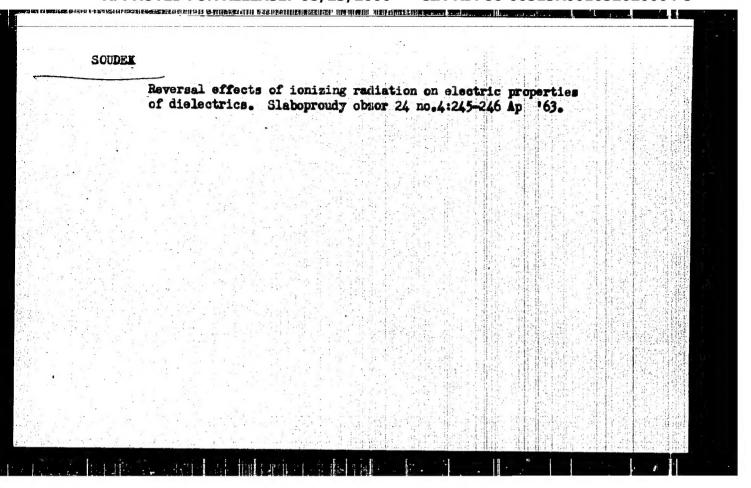
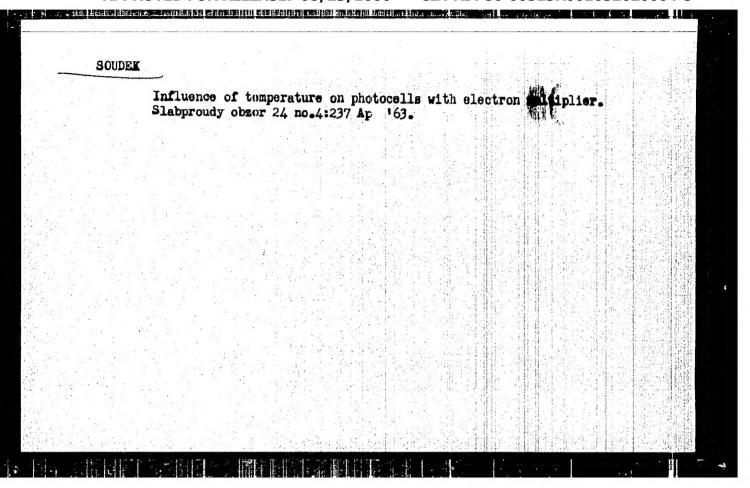
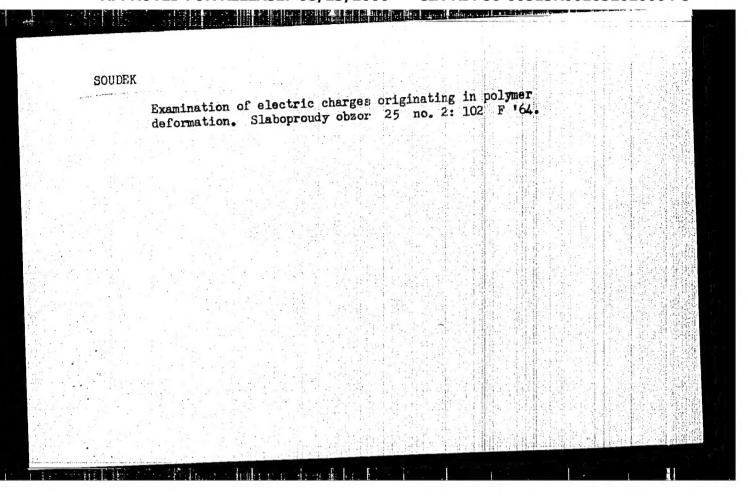
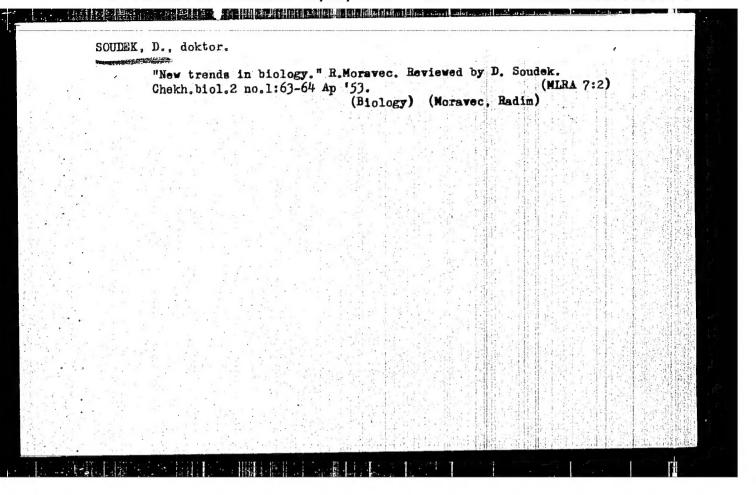
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	1. Institu im. Masa	t obshchey biologii meditsinskog rika, Brno. (Scientific apparatus and inst		

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CZECHOSLOVAKIA / General Division, History, Classics,

Personnel

Abs Jour: Ref Zhur-Biologila, No 5, 1958, 18841

Soudek Dusan Author :

Inst

On the Fiftieth Year of Professor Dr. Ferdinand Title

Hercik

Orig Pub: Ceskosl. biol., 1955, 4, No 6, 384

A short survey of the scientific activity of the Abstract:

Czech biologist Hercik (born, 1905), who studied ques-

tions of the surface tension of cell fluid (a menograph in 1934), the action of X-rays (20 works published) and others. In later years Hercik conpublished ducted research on bacteriophage and showed that the phage is formed directly from the contents of the cell. A state prize was awarded to him in 1954 for his monograph "The Problem of Bacteriophage".

card 1/1

SOUDEK, Dusan: BENES, Lauvir.

Protein composition of membrane of cell nucleus. Cesk.biol.
4 no.7:416-421 Jl *55.

1. Cytofarmakologicka laborator farmaceuticke fakulty a biologicky ustaw lekarske fakulty university v Brne.
(CKLL NUCLEUS, protein composition)
(PHOTEINS, in cell nucleus)

CZECHOSLOVAKIA / General Biology. Cytology. General Cytology. : Ref Zhur - Biologiya, No 4, 1959, No. 14297 Abs Jour Author : Soudek, D. : Not given Inst. : The Genesis of "Cells" from Pulverized Title Organisms by Coacervation : Folia biol. (Ceskosl.), 1957, 3, No 4, Orig Pub 252-256 : No abstract given Abstract Card 1/1

Origin of "cells" through concervation of "iccolloids from homogenized organisms.

p. 292 (Ceskoslovenska Biologie) Vo.. 6, no. 4, July 1957. Praha, Czechoslovakia.

50: Monthly Index of East European Accessions (EEAI) IC, Vol. 7, no. 1, Jan1958

SOUDEK, D.: STRANSKA, E.

Phenomena of the growing activity in the nucleus of Basindobolus ranarum Eidem. p. 327.

Praha, Csechoslovakia. Vol. 7, no. 5, Sept. 1958.

Monthly List of East European Accessions q(EEAI), LC. Vol. 9, no. 2. Feb. 1960.

Uncl.

NECAS, O.; HAVELKOVA, Marie; SOUDEK, D.

Submicroscopic morphology of Rhizopus nigricans. Folia microbiol.

8 no.5:290-292 '63.

1. Department of Biology, Medical Faculty, Purkyne University, Brno.

(RHIZOPUS) (CYTOLOGY) (MICROSCOPY, ELECTRON)

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SOUDEK, D.; NEGAS, O.

The insoluble component of nuclear membrane. III. Electron microscopy of ultrathin sections. Folia biol. (Praha) 9 no.6: 447-451 *63.

1. Department of Biology, Faculty of Medicine, Purkyne University, Brno.

(CELL NUCLEUS) (MICROSCOPY, ELECTRON) (ALKALIES)

SOUDEK, I.
Electromechanical Q-meter. p. LO.

Vol. 1h, no. 1, Jan. 1953
SIABOFROUDY OBZOR
Fraha, Czechoslovakia

So: Eastern European Accession Vol. 5 No. h April 1956

SOUDEK, I. - Vol. 14, no. 4, Apr. 1953. SLABOPROUDY OBZOR

A. Bonc and Z. Bruevich's article "Simple Laboratory Oscillator for Generating Rectangular Impulses"; an abstract. p. 188.

SO: Monthly list of East Buropean Accessions, (MEAL), LC. Vol. 4, No. 9, Sept. 1955

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Abs Jour: Ref Zhur - Fizika, No 2, 1958, No 4523

Author : Soudek I. Inst : Not Given

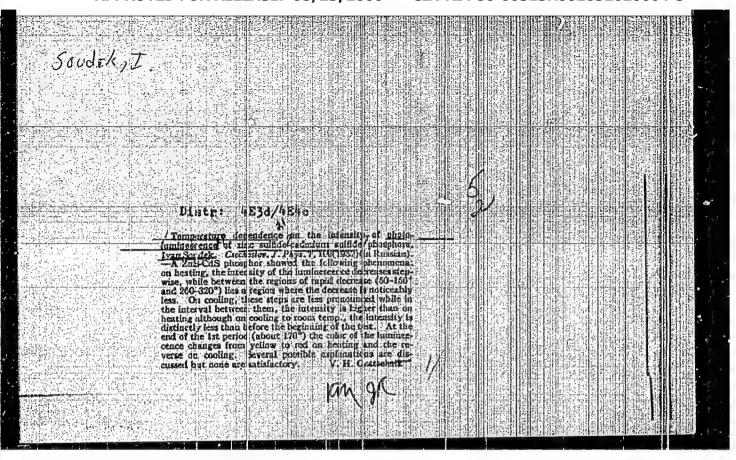
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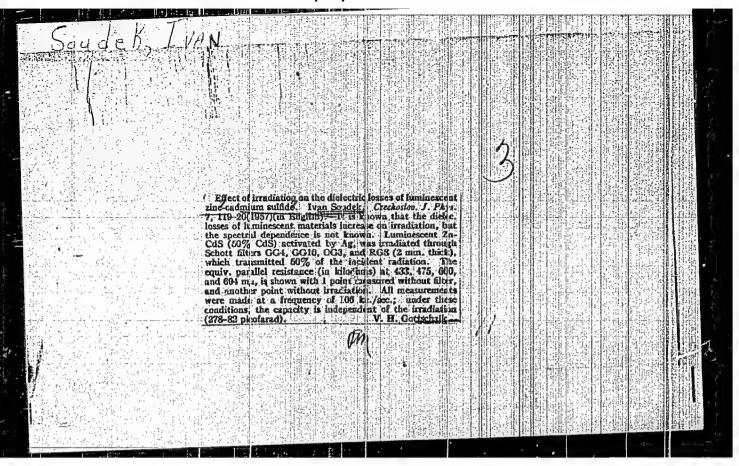
Materials.

Orig Pub : Jemna mech. a opt., 1957, 2, No 3, 83-88

Abstract : Popular article.

Card : 1/1





CZECHOSLOVAKIA/Optics - Luminescence

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6772

Author : Soudek Ivan
Inst :
Title : Dependence of Afterglow of Luminescence on the Thickness of the Specimen.

Orig Pub : Ceskosl; casop. fys., 1957, 7, No 6, 709-711

Abstract : See Abstract 6771.

Colorimetry and its importance for television. 1. 508 (Slaboproudy Obzor. Vol. 18, no. 7, July 1957. Praha, Czechoslovakia) Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958	STUDE, I.				
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SOUDEK, IVANO
CZECHOSLOVAKIA/Optics - Luminescence

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Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 14275

Author : Soudek Iven Inst

: Not Given

: Luminescence of Crystals and Its Application in High Fre-

quency Engineering

Orig Pub : Slaboproudy obzor, 1957, 18, No 10, 715-721

Abstract : Survey. Bibliography, 88 titles.

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: Ceskosl. casop. fys., 1958, 8, No 1, 77-88 Orig Pub

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Card 1/1

CZECHOSLOVAKIA/Optics - Luminescence

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6774

Author : Soudek Ivan
Inst : Dependence of the Spectral Composition of the Luminescence of Zinc-Cadmium Sulfides on the Excitation Intensity

Orig Pub : Ceskosl. casop. fys., 1958, 8, No 3, 315-318

Abstract : See Abstract 6773

CZECHOSLOVAKIA/Optics - Luminescence

K-6

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6771

: Soudek Ivan Author

Inst

. Research Institute for Vacuum Electronics, Prague, Czechoslova-

: Dependence of Afterglow of Luminescence on the Thickness of Title

the Specimen

Orig Pub: Chekhosl. fiz. zh., 1958, 8, No 3, 352-335

Abstract : An increase was observed in the duration of the afterglow of

the phosphors (ZN:Cd) S-Ag and (Zn:Cd)S-Cu, at increased specimen thickness. The dependence of the afterglow on the thickness of the specimen has a somewhat different character than the dependence on the intensity of excitation. It is

assumed that the observed phenomenon is connected with the transition of electrons between the individual crystalline

grains. -- Ya. Ya. Kirs

: 1/1 Card

K-6 CZECHOSLOVAKIA/Optics - Luminescence Abs Jour: Ref Zhur - Fizika, No 4, 1959, No 6773 Research Institute for Vacuum Electronics, Prague, Czechoslo-Soudek Ivan Author : The Dependence of the Spectral Composition of the Lumines-Inst cence of Zinc-Cadmium Sulfides on the Excitation Intensity Title Orig Pub : Chekhosl. fiz.-zh., 1958, 8, No 3, 336-340 Abstract : A shift in the radiation bands of the phosphors ZnS-Ag, ZnS-Cu, and (Zn:Cu)S-Ag has been observed towards the shorter waves upon increased intensity of the exciting light. To explain the observed phenomena it is assumed that the levels of the activator fill a definite band of values of energy, in which the excited state can shift from the deeper states towards the higher migrations of holes. Repeated excitation of short wave centers occurs at higher excitation intensity more rapidly than the excitation of long-wave centers, caused by the motion of the holes. -- Ya. Ya. Kirs : 1/1 Card

AUTHOR:

Soudek, Ivan

Physical Control (S. 1 Bereditt 18)

CZECH/37-59-3-4/29

TITLE:

Temperature Dependence of Spectral Composition of

Luminescence of Sinc Cadmium Sulphide

Coskoslovenský časepis pro-fysiku, 1959, Nr 3, pp 246-248 PERIODICAL:

ABSTRACT: The width of the broad, roughly gaussian, emission bands of sulphide phosphors should be proportional to the absolute temperature or its square root. Results by Schon (Ref. 1) and Klick (Ref 2) are, however, not in good agreement with this assumption. In the present investigation, a phosphor containing 70% ZnS, 30% CdS:0.01 Ag was deposited without binder on an aluminium substrate, cooled to liquid air temperature and then warmed up in steps of roughly 20 °C. At each temperature the emission spectrum was measured. Excitation was mainly by radiation of 365 mm wavelength. Figure 1 shows the emission spectrum at 110 and 220 The maximum has shifted and decreased with temperature but the width of the curve has remained nearly unchanged. Figure 2 shows the logarithm of the emission intensity against temperature for several selected wavelengths. In agreement with other measurements (Peyrou and others -

Refs 3,4), these measurements show a decrease in the maximum

Card1/3

CZECH/37-59-3-4/29

Temperature Dependence of Spectral Composition of Luminescence of Zinc Cadmium Sulphide

intensity with increasing temperature and a shift towards shorter wavelengths. This behaviour can be understood on the assumption that the emission centre consists of a sulphur ion whose energy levels are shifted by the influence of activator ions in its vicinity (H.A. Klasens - Ref 8). By thermal expansion of the lattice the distance between the sulphur ion and the activators increases; thereby the interaction decreases and the relevant energy level approaches its original position in the valence band. Thus, the emission shifts towards shorter wavelengths. On the other hand, the migration of holes increases with temperature (the author - Ref 9) and tends to shift the emission towards longer wavelengths. The balance between these two influences may vary in different materials (C.C. Viam - Ref 10 and J. Ludwig, R. Seiwert - Ref 11). Traps may also influence this process (Refs 12, 13). A further investigation regarding the possibility of the influence of traces of copper is in progress.

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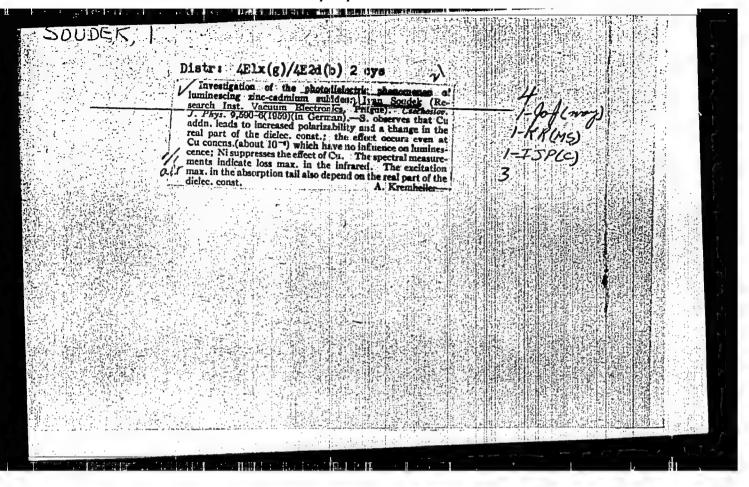
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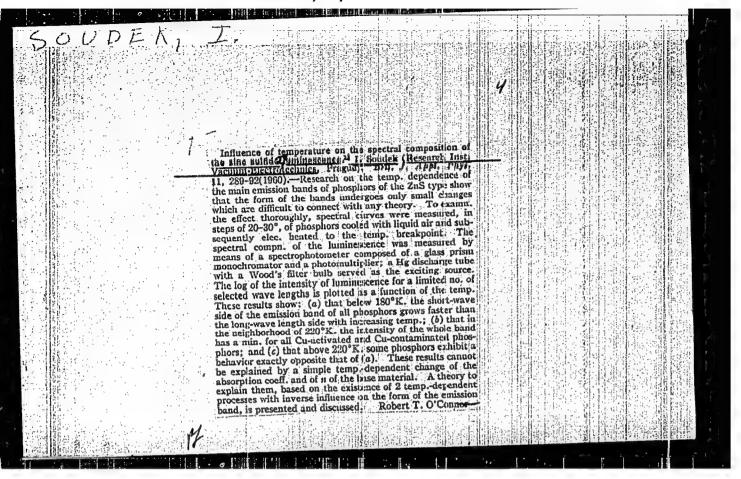
There are 2 figures and 15 references, 5 of which are German, 1 French, 2 international, 3 Czech and 2 English.

ASSOCIATION: Výzkumný ústav pro vnkuovou elektrotechniku, Praha (Research Institute for Vacuum Electrical Technology, Prague)

SUBMITTED: July 14, 1958

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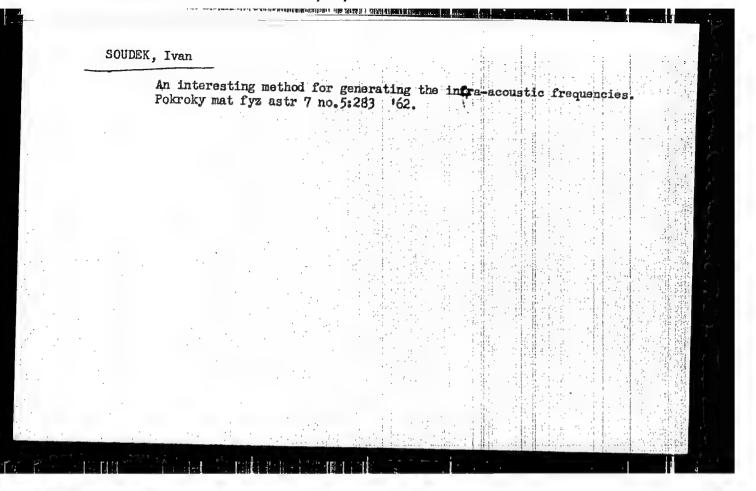


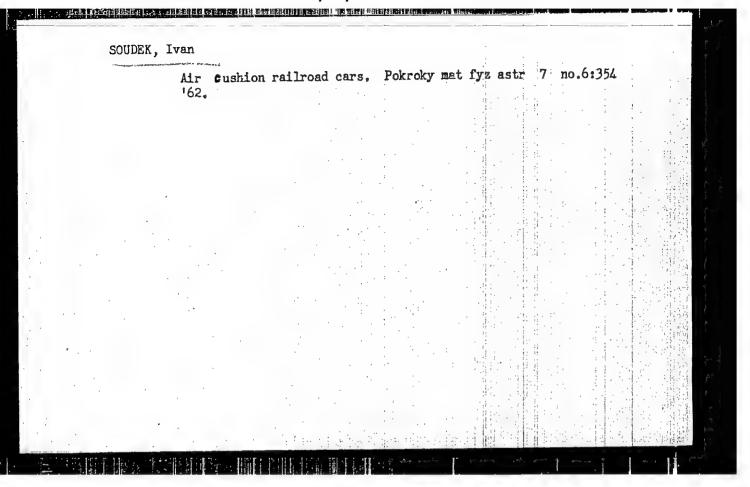


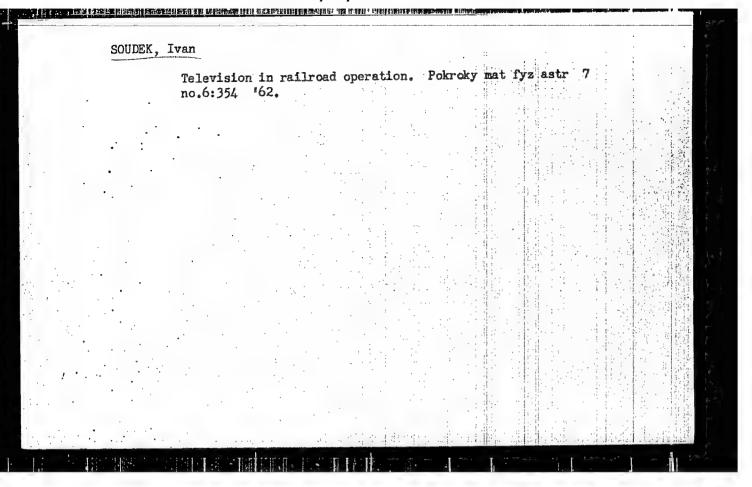
հեւևև8 Z/028/62/000/006/003/003 24.3300 D236/D308 Soudek, Ivan AUTHOR: A polarizer for infrared radiation TITLE: a astronomie, no. 6, 1962, Pokroky matematiky fyziky PERIODICAL: 354 A new polarizer has been developed at the Zeiss It works by reflection from selenium foils of a TEXT: thickness of a few microns. It is intended for wavelengths between thickness of a few microns. It is intended for wavelengths between $2-25~\mu$, wave numbers from 5000 to 400 cm-1. In this region the transmission is almost constant around 40%, and the degree of polarization is 98%. Abstracter's note: Complete translation 7 Card 1/1

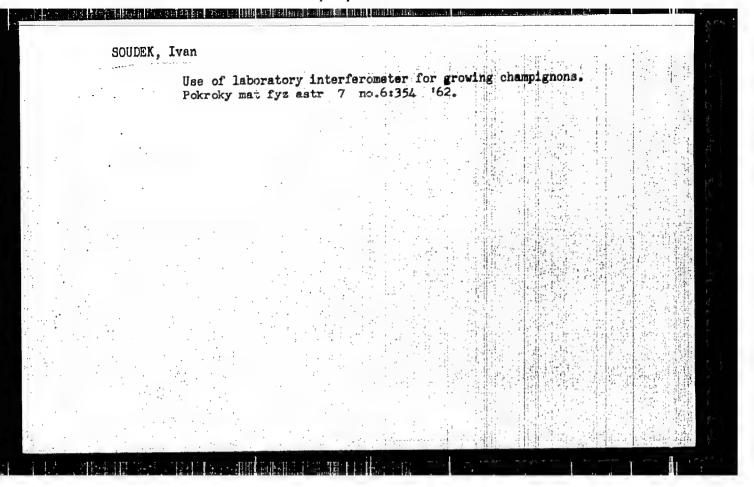
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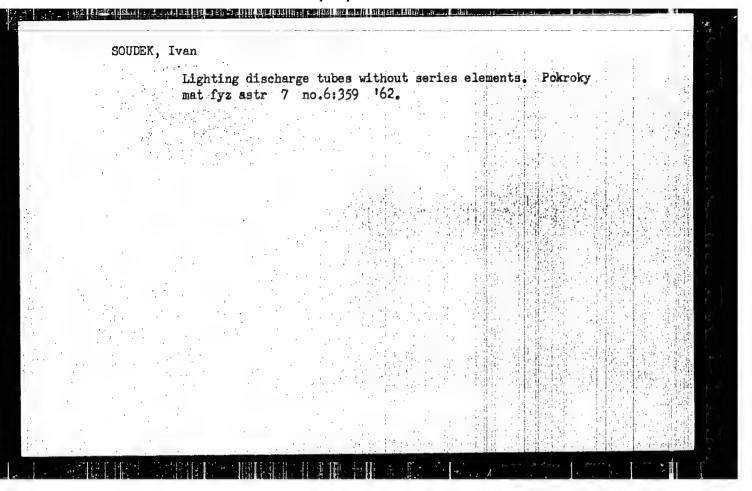
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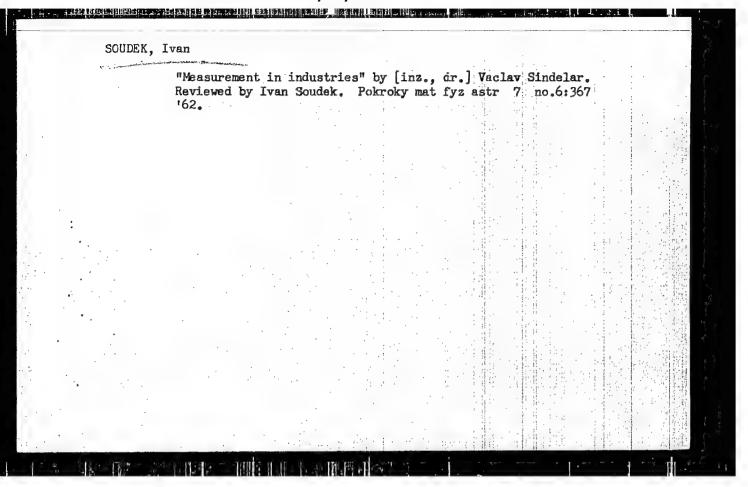


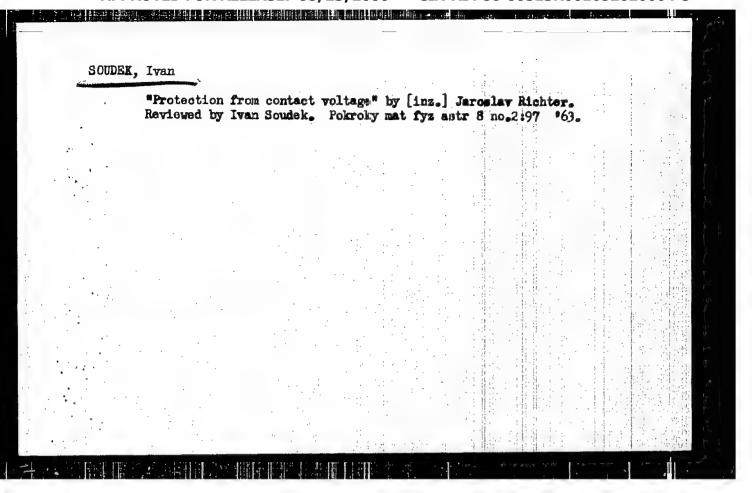




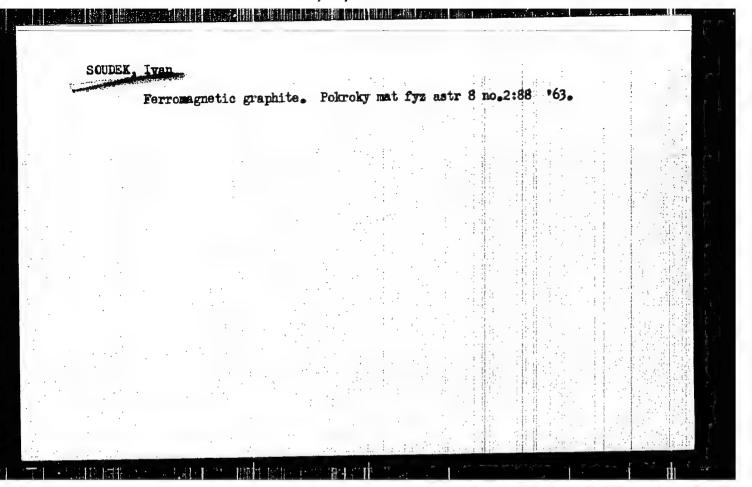


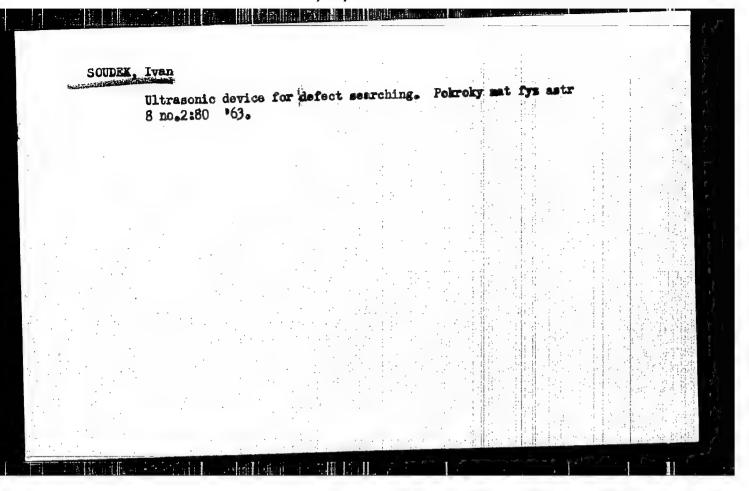


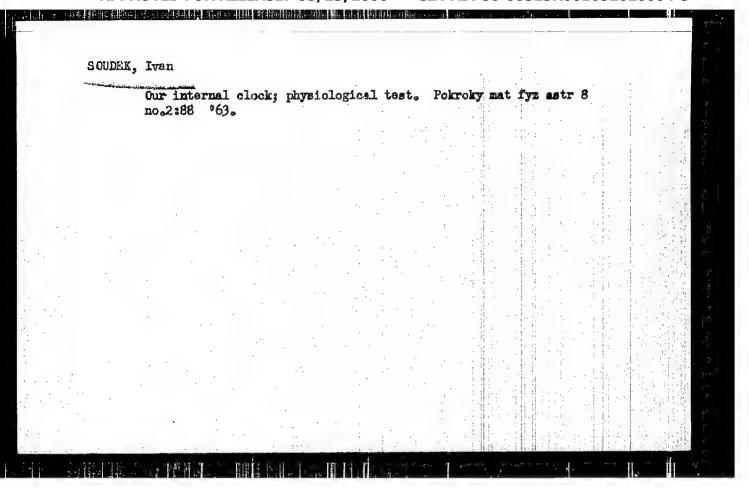


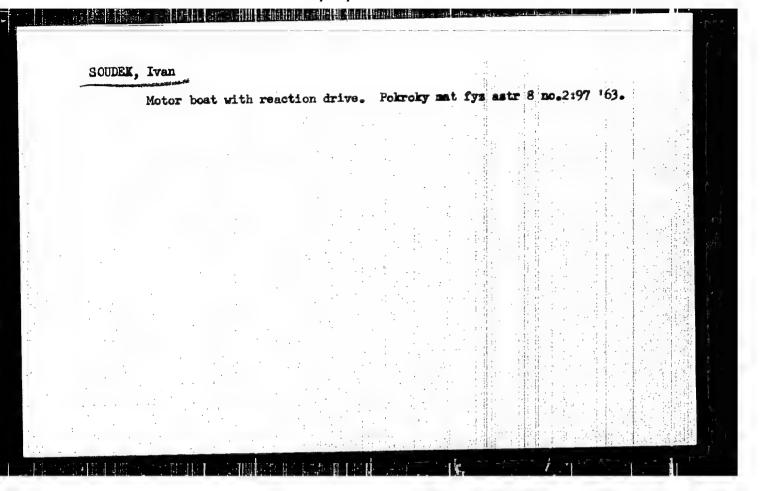


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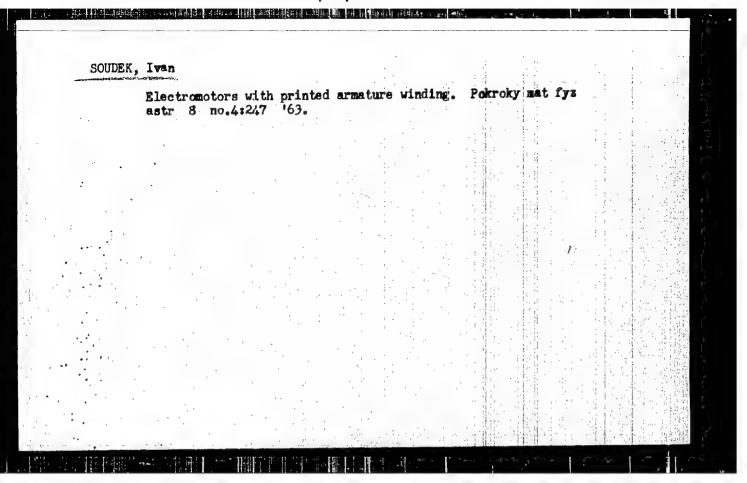


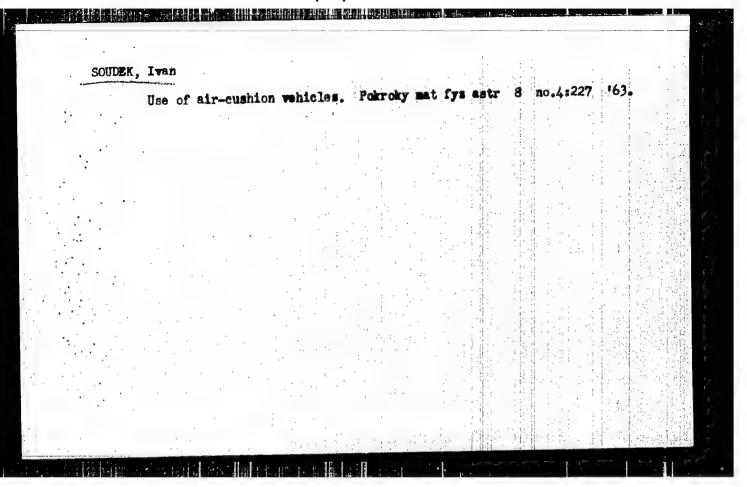






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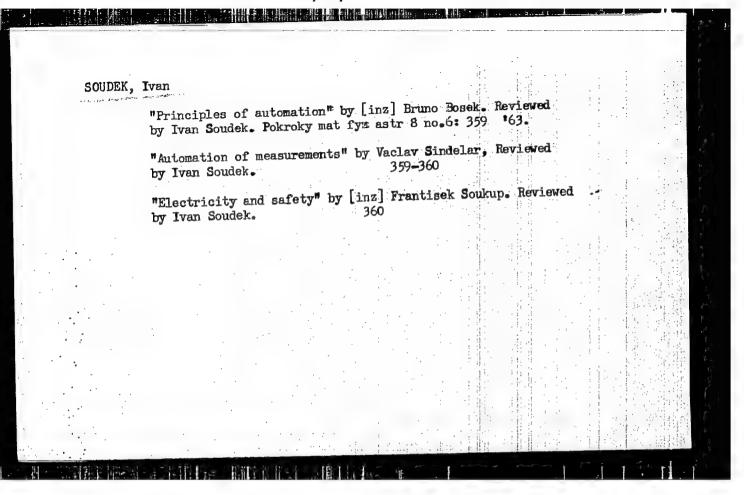




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	Cooling on the basis of the Peltier effect.	342		
	A watch without moving parts.	342		
	A liquid laser.	342		



Photoelectric cells in automobiles; Telephone with television; Automatic control of rell vehicles; Picture tube with miniature signals. Pokroky mat fyz estr 8 no.3:144. 163. Photomultipliers without bulbs; Color television in the Soviet Union. Ibid.:159 Astronomical telescopes of Galileo Galilei. Ibid.:172 Production of semiconductor elements in Bulgaria; Tires with exchangeable tread. Ibid.:179

How is silver used? Pokroky mat fyz astr 9 no.4:239 164.

Magnetic reproduction of television pictures. Ibid.: 243

Experimental boiler for extreme steam (arameters. Ibid.: 247

Agreement between the Soviet Union and the United States on ecoperation in the field of artificial satellities. Ibid.: 250

High vacuum similar to the Torricellian vacuum. Ibid.: 250

Emission of television image on several characts. Ibid.: 250

Instruction of locomotive engineers by analog computers. Ibid.:

SOUDEK, J.

Measurement of physical-optical properties in luminescent materials. p. 55.

(Jemna Mechanika A Optika. Vol. 2, no. 2, Apr. 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

AKIA/Chemical Technology - Chemical Products and Their Application, Part 3. - Fermentation Industry. H-26 Abs Jour Ref Zhur - Khimiya, No 7, 1958, 22988 Author J. Soudek, D. Petricek Inst. Title Chemical Methods of Hops Evaluation. Orig Pub Chmelarstri, 1957, 30, No 9, 139-140 Abstract The Velimer method, based on the difference in the solubility of individual components of the bitter substances of hops in various organic solvents, is the fundament of the chemical investigation. The total amount of resins, soft resins, A-acid (humulone), A-acid (lupulone) and solid resins is determined by this method. Card 1/1

SOUDEK, Jiri, promovany chemik

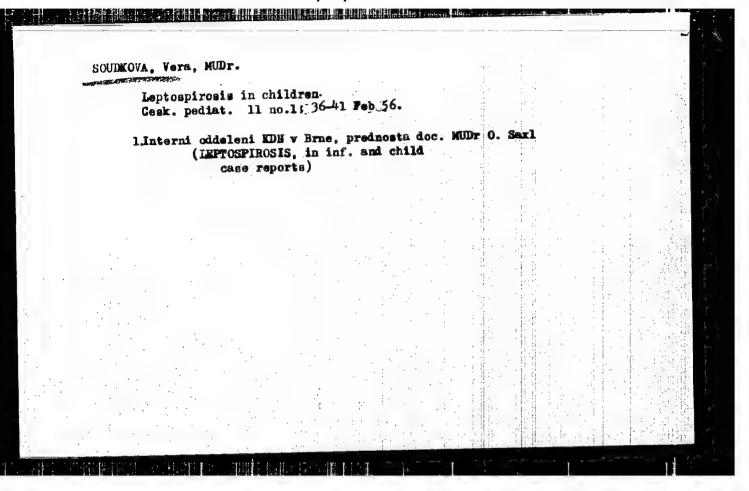
Waste water from ore dressing plants. Rudy 10 no.5:167-169 My '62.

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HENA, J., dr.; SOUDEK; MALEC, Zd.; STAREK; MICHALICA, Karel, inz.;
HUSA, V., inz. dr., ScG.; KRIZ, J.

Reports. Slaboproudy obzor 24 no.7:423-428 Jl 163.

Country: Czechoslovakia Academic Degrees: Dr	
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AUTHORS:

Soudný, Mojmír, Engineer, and

Malinek, Miroslav, Candidate of Chemical Sciences

TITLE:

Spectrographic determination of indium in flue dust

PERIODICAL: Rudy, no. 11, 1960, 380 - 382

TEXT: The article describes spectrographic tests with the constanttemperature-arc method to determine indium in flue dust. The tests
were performed with the aim of finding a rapid method by which metallurgical flue dust can be analyzed for its suitability as a raw
material source of rare metals. There are several methods of spectrographic determination of In, but most of them are explicit methods developed for analysis of specific materials, such as sphalerite, galena and mica, as described by A. I. Busev (Ref. 1: Analiticheskaya khimia india [Analytical Chemistry of Indium] Izdatelstvo
akademii nauk SSSR, Moscow, 1958). However, since the composition
of flue dust varies, a method had to be found which would be independent of both qualitative and quantitative changes of the main compo-

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nents of samples. Several attempts were made to eliminate the influence of "third components" on the spectralline intensity of indium. A so-called constant-temperature-arc method, developed by N. W. H. Addink, J. A. M. Dikhoff, C. Schipper, A. Witmer and T. Groot (Ref. 15: Spektrochim. Acta 7, 45, 1956; Ref. 16: Applied Spectroscopy 10, 128, 1956), where the sample is placed in the crater of a heavy carbon electrode and then completely burned by the arc, was successfully applied for the determination of germanium by M. Malinek (Ref. 17: Applied Spectroscopy, 13, 1, 1959). The same method was now tested for its suitability to analyse indium in flue dust. The tests were performed with a "KSA 1" high-dispersion spectrograph with quartz lenses, with d/c supplied from a "U 300/20 R 30"electronically-controlled rectifier, a product of the n.p. Křižík Děčín (Křižík National Enterprise, Děčín). "Foma Spektro Modrá 220" and "Agfa Blau Hart" photographic plates and Kodak "D19" and "F5" chemicals were used for photographic processing. Electrodes were made of graphite rods, supplied by the n.p. Elektrokarbon Bratislava (Elektrokarbon National Enterprise, Bratislava) which had to be machined to the

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shape shown in Figure 1 to achieve quiet burning of the arc. Since the used graphite was originally not meant for this purpose, spectrographic purity could not be achieved, despite chemical and physical purification. The emulsion was calibrated not only with respect to the contrast factor (gamma), but also in regard to the dependence between the actual intensity of the source and the optical density for a certain wave length region. Complete burning of 5 mg Co203 was used as light-intensity standard, with the intensity scale given by a 7-stage filter. To cover the entire range of optical densities, from the lowest values of the background to the highest In concentrations, two lines of different intensity, namely Co I 3039.57 and Co I 3042.48 were chosen for construing the calibration curves (Fig. 2). From the last 4 In lines, the line In I 3039.356, designated U-4 in Harrison tables (Ref. 20: G. R. Harrison: M. I. T. Wavelength Tables. John Wiley & Sons, New York, 1939), was chosen (Fig. 3), since the other three are not suitable for the constant-temperature-arc method. For the dispersion and resolving power of the used instrument, a disturbing influence could be expected only from Fe at a concentration of 25% and more, and from Cd at a concen-

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tration of 10% and more. However, neither element occurs in such high concentration in the flue dust. The tests were performed under the following conditions: Adjusted wavelength, 3,000 %; slit width, 0.025 mm; voltage (source not loaded), 300 V; current (with electrodes in contact), 15.5 A; loading resistance in series with the arc, 25 ohms; electrode gap, 9 mm; weight of sample in the anode, 5 + 0.1 mg; arc ignition by electrode contact; exposure time till complete burning of the sample (5 - 6 minutes). Densitometric data was obtained at 30 X magnification and a slit width of 0.45 mm. The current was not regulated during exposure, but the rated electrode gap was maintained constant. The time of complete sample burning was determined from spectrograms developed in time. Dry, finely-ground samples were placed in the anode crater and covered by 5 mg SiO2 and some graphite. Four samples of equal composition were exposed on one plate, together with the reference Co spectrum. A calibration curve was drawn for each plate. The percentage of In in the sample was read from the curve after calculating the actual intensity by subtracting the background intensity from the total intensity. The assumption that the influence of major components of the sample can

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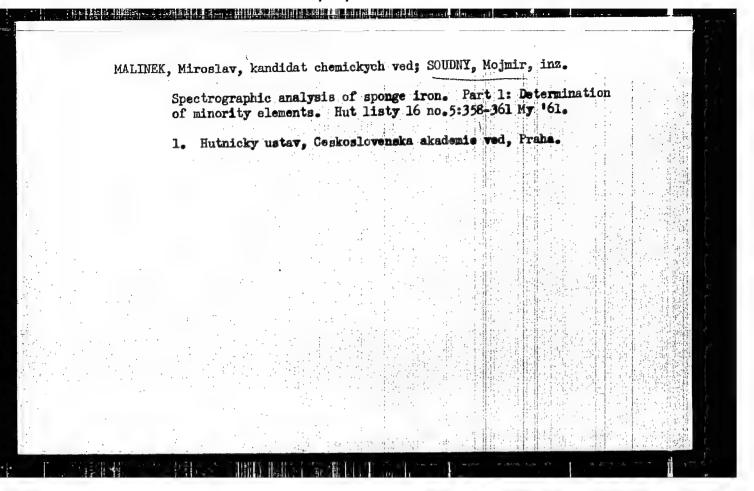
be ignored was verified by total burning of various synthetic 5 mg standards with the same content of In, but with varying matrices containing PbS, ZnS, SnO2, As203, Sb2S3, CuS, Al203 and SiO2. The intensity of the In 3039 line fluctuated only within limits permissible by the method. For construing the analytical curve, synthetic standards were prepared by mixing the basic In standard, containing 0.1% In, with a matrix of approximately the same composition as found in flue dust. The corrected In 3039 line intensities are plotted versus In % in logarithmic scale in Figure 4. From 0.001% (threshold sensitivity) to 0.03% In the curve is a straight line; above 0.03% the influence of self-reversal begins asserting itself. In conclusion, the authors state that the tests proved the suitability of the constant-temperature-arc method for spectrographic determination of In in flue dust. The reproducibility of the method was determined by frequent-The mean square error was found to be + 13%. The ly repeated tests. good agreement of results obtained by the described method with those obtained by chemical analysis is shown in Table 1. The time required for analysis is less than I hour. The accuracy is considered adequate in view of the more complicated and tedious chemical methods

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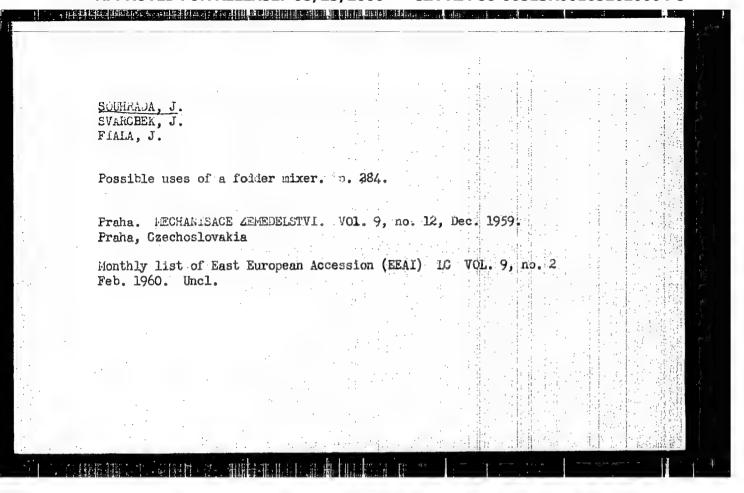
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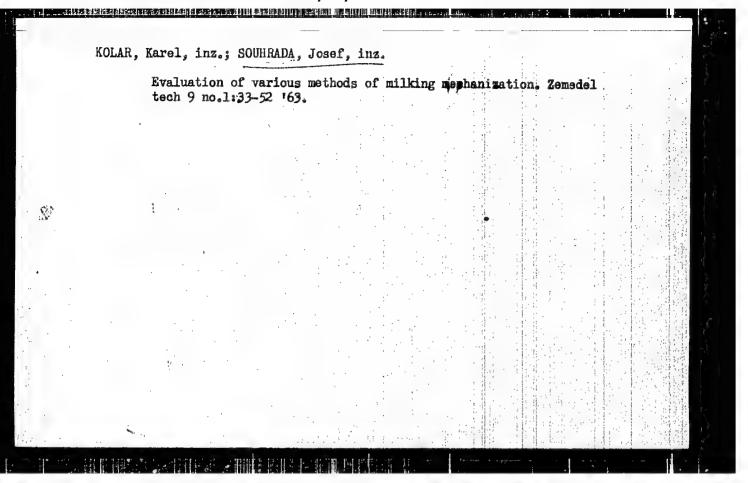
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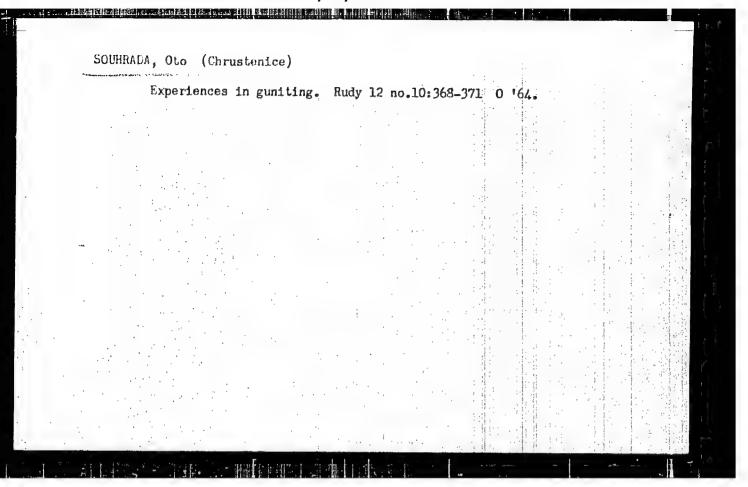
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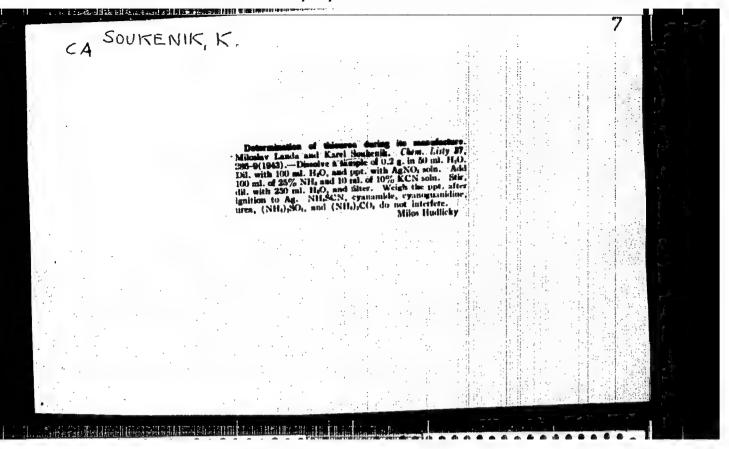
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